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SDMS DocID 564449

MEMORANDUM

TO: Jard Company Inc. Site File
cc: Daniel Burke, U.S. Environmental Protection Agency (EPA) On-Scene Coordinator
John M. Carlson, EPA Response Project Officer

FROM: Patricia Coppelino, Roy F. Weston, Inc., Superfund Technical Assessment and Response Team (START)

DATE: 6 August 1998

SUBJ: Extent of Contamination Study Conducted on 16 and 23-25 June and 7 July 1998
TDD.No. 98-06-0010-A, PCS No. 5303, DC No. R-1557

On 16 and 23-25 June and 7 July, EPA On-Scene Coordinator (OSC) Daniel Burke and Roy F. Weston, Inc., START members Patricia Coppelino, Todd Borci, Paul Callahan, and Mandy Butterworth conducted an extent of contamination study at the Jard Company Inc. site located on Bowen Road in Bennington, Bennington County, Vermont (see Attachment I - Site Location Map). The site is the location of a former capacitor manufacturing facility, which encompasses approximately 11 acres. The site consists of an approximate 70,000 square-foot manufacturing facility, paved parking areas, and a wooded area to the south of the facility (see Attachment II - Site Diagram). The site is bounded by Bowen road to the north, a State of Vermont, Agency of Transportation garage to the northeast, an undeveloped lot to the east, the Roaring Branch of the Walloomsac River to the south, and baseball fields and an undeveloped lot to the west.

On 16 June 1998, OSC Burke and START members Coppelino and Borci mobilized to the site to conduct a site inspection and to measure the length of the site fence, the area that was to be re-paved, and the area that was to be sampled by START (see Attachment III - Site Dimension Diagram).

On 23 June 1998, START members Coppelino, Callahan, and Butterworth mobilized to the site to establish the sampling grid along the southern portion of the site (see Attachment IV - Sample Grid Map). At the time of arrival, START personnel noted that the doors on the western side of the building and the gate in the northern portion of the fence were both open.

The sampling grid consisted of a north to south baseline, with points at 25-foot intervals designated as A00 through H00. The baseline measured 167 feet from the rear of the former drum storage area into the wooded lot behind the site. Horizontal grid lines were established every 25 feet to the west of the baseline. The maximum length of the grid lines was 225 feet on line D, and surface soil samples were collected at each of the 42 grid points excluding D100. A separate line (AA through EE) was established to the west of station D225, measuring 122.5 feet from southeast to northwest. Five additional surface soil samples were collected at 25 foot intervals along this line.

On 24 June 1998, START personnel collected a total of 52 samples surface soil samples from the sampling points established on 23 June 1998. All sampling activities were performed in accordance with the site sampling quality assurance/quality control plan, which was prepared as a separate document, entitled *Removal Program Sampling Quality Assurance/Quality Control Plan for the Jard Company Inc. Site Preliminary Assessment Site Investigation, Bennington, Vermont*. In addition START personnel re-measured the fence and building lengths as well as the paved areas of the site to confirm the measurements taken on 16 June 1998. After sampling activities were completed, START members photodocumented the site conditions (see Attachment V - Photodocumentation Log), and packaged the samples.

The surface soil samples were transported to the START field laboratory, located in Pittsfield, Massachusetts. The samples were screened by START members Brenda Operach and Kerri Cattabriga for the presence of PCB Aroclor 1242 using an gas chromatograph equipped with an electron capture detector (see Attachment VI - Screening Data Tables).

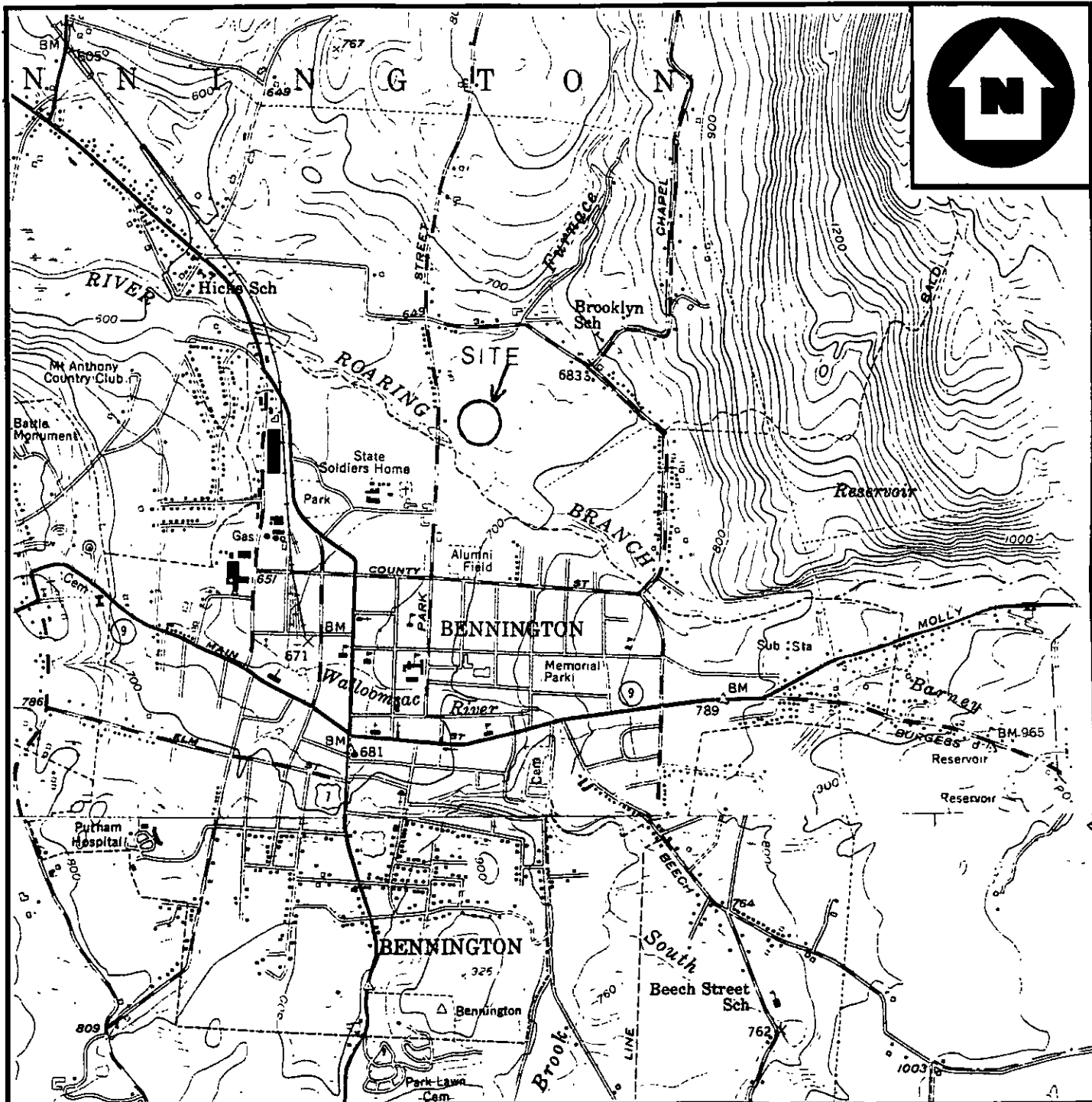
On 25 June 1998, ten percent of the screening samples were subsequently transported to the EPA New England Regional Laboratory (NERL) for confirmation PCB analysis (see Attachment VII - Chain-of-Custody, and Attachment VIII - Polychlorinated Biphenyls Analytical Data).

Results from the PCB screening analysis indicated levels of Aroclor 1242 at concentrations ranging from 0 to 50 parts per million, with the highest concentration detected at grid point E-125.

On 7 July 1998, START members Coppolino and Borci traveled to the site to return the soil collected for the screening analysis. When START members arrived at the site, they observed wooden ramps and other materials used for skateboarding, rollerblading, or biking. The materials were located in the parking area on the western portion of the site. A vehicle entered the site during site activities, and after speaking with the START members on site, the teenagers driving the vehicle departed the site. Before START members departed the site, the gate in the northern portion of the fence was closed to defer other motor vehicle traffic into the site.

ATTACHMENT I

Site Location Map



BASE MAP IS A PORTION OF THE FOLLOWING 7.5 MINUTE U.S.G.S. QUADRANGLE(S):
 POWNAL, VERMONT 1942. FIELD CHECKED 1954. BENNINGTON, VERMONT 1942. FIELD CHECKED 1954

4 2 0 4 MILE



QUADRANGLE LOCATION

SITE LOCATION MAP

JARD COMPANY INC.
 BOWEN ROAD
 BENNINGTON, VERMONT

WESTON
 MANAGERS DESIGNERS/CONSULTANTS

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #
 98-06-0010-A

DRAWN BY:
 COPPOLINO

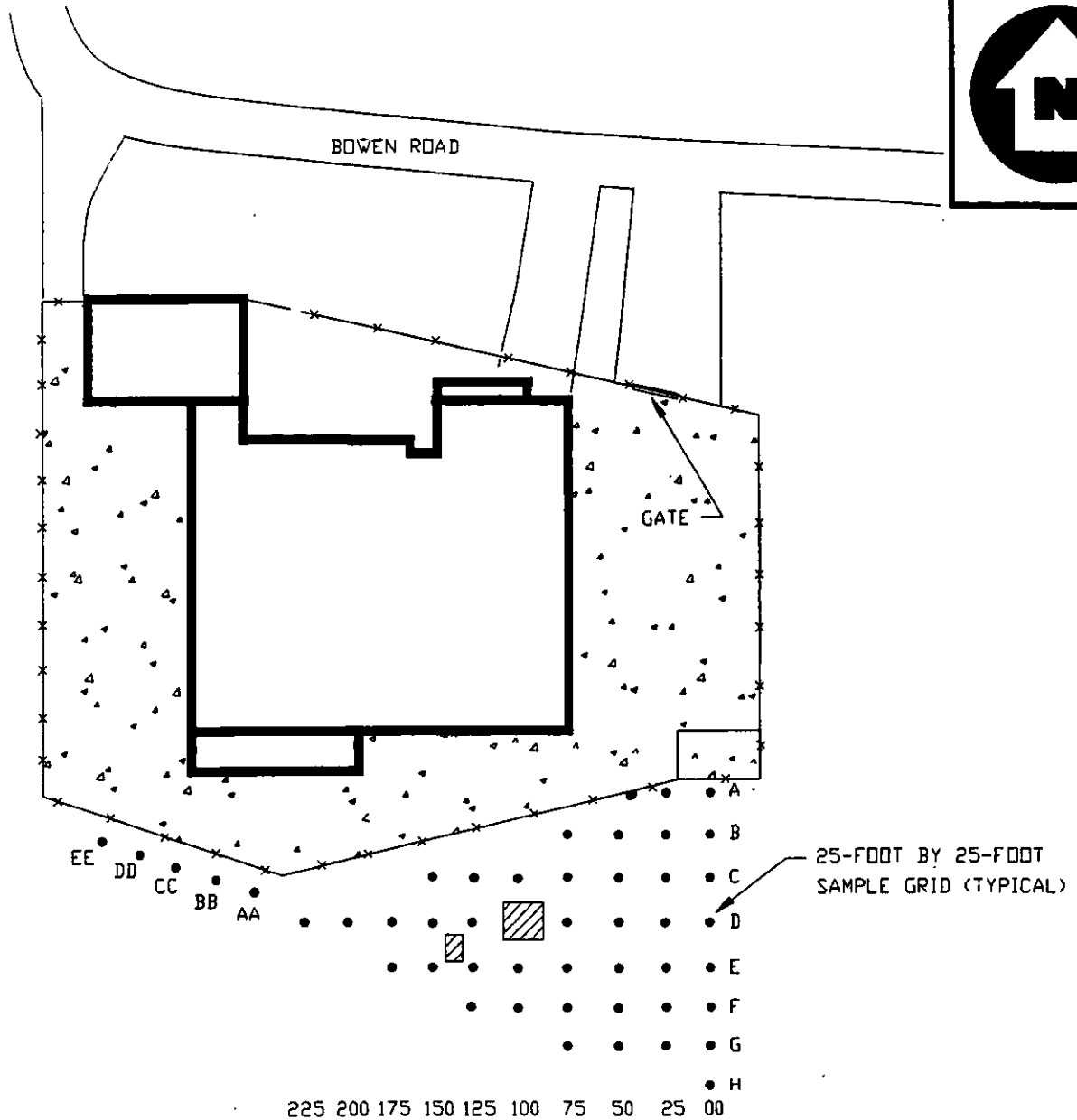
DATE
 7/17/98

FILE NAME:
 R:\98060010\FIG 1

FIGURE 1

ATTACHMENT II

Site Diagram



NOTES:
NOT TO SCALE



SAMPLE LOCATION DIAGRAM
JARD COMPANY, INC.
BENNINGTON, VERMONT



REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #
98-06-0010

DRAWN BY:
T. BORCI

DATE
7/13/98

FILE NAME:
R:\98060010\fig4.dwg

FIGURE 4

UST, INC.



LITTLE LEAGUE
BALL FIELDS

BOWEN ROAD

GATE

JARD COMPANY, INC.

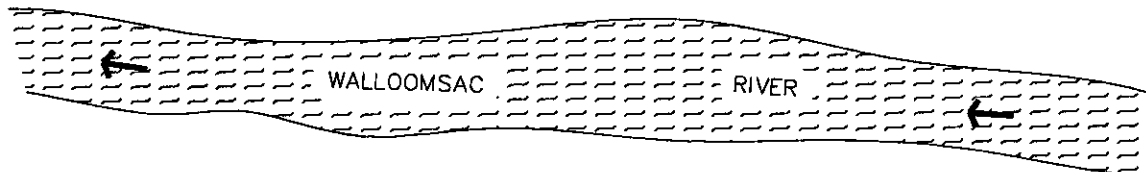
DW-2

HOPPER

DW-3

DW-1

FORMER DRUM
STORAGE AREA



WALLOOMSAC RIVER

NOT TO SCALE

LEGEND

○ ABOVEGROUND
STORAGE
TANK (AST)

◻ PAVED AREA

→ FLOW DIRECTION

—*— FENCE LINE

● WATER SUPPLY WELL
(SCREENED IN UNKNOWN)

▨ SURFACE WATER

⊕ DRY WELL

▨ AREAS EXCAVATED DURING
EPA REMOVAL ACTION

SITE SKETCH

JARD COMPANY, INC.
BENNINGTON, VERMONT



REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #
98-06-0010

DRAWN BY:
W. SHAW

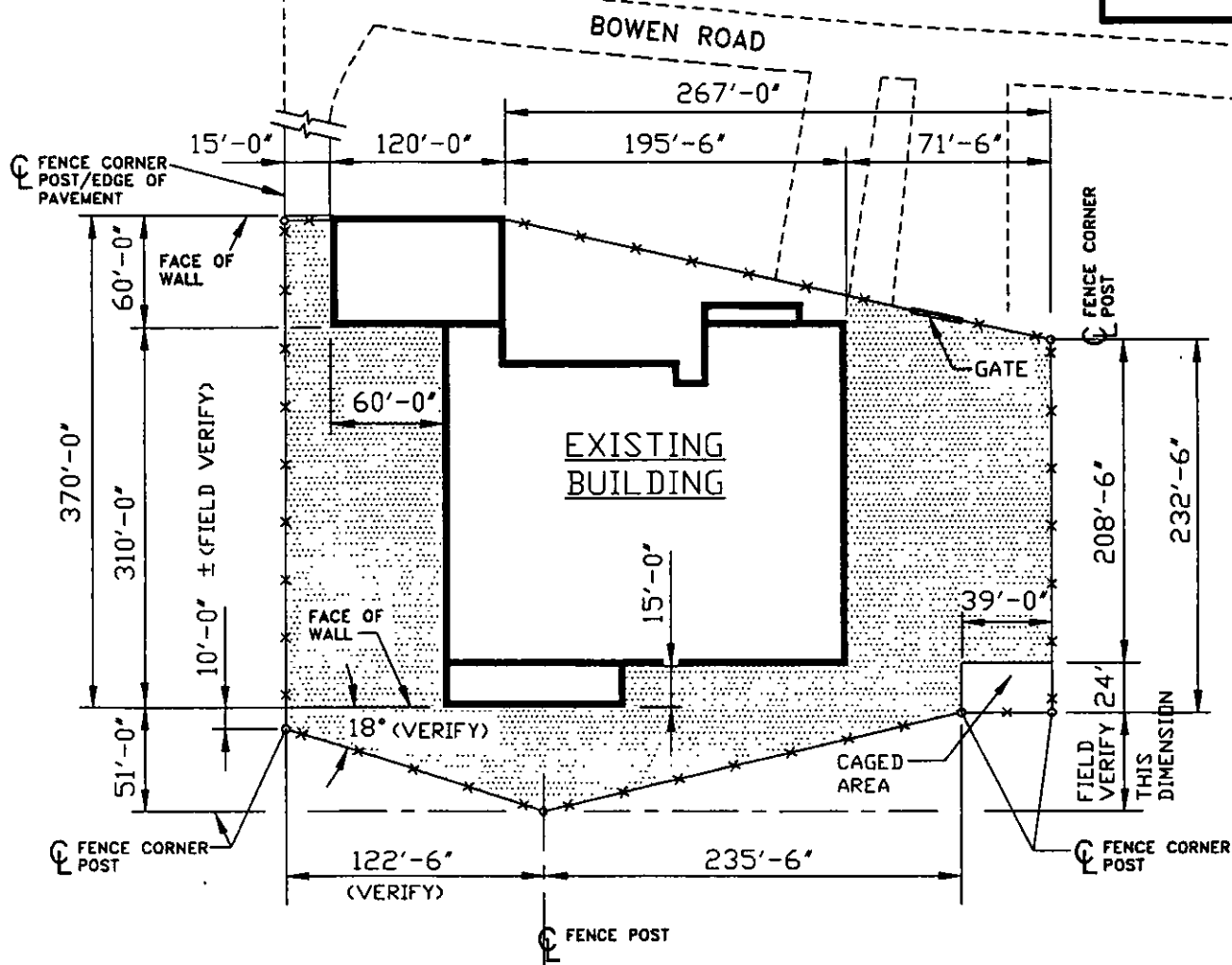
DATE
7/24/97

FILE NAME:
R:\98060010\FIG2X

FIGURE 2

ATTACHMENT III

Site Dimension Diagram



NOTES:

ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO FABRICATION OF FENCE
APPROXIMATE LENGTH OF FENCELINE IS 1,200 FEET (±50 FEET)
APPROXIMATE AREA TO BE PAVED IS 56,000 SQUARE FEET (±1,000 SQUARE FEET)
APPROXIMATE AREA TO BE PAVED IS 56,000 SQUARE FEET (±1,000 SQUARE FEET)

NOT TO SCALE

LEGEND

—x—x— CHAIN-LINK FENCE

⊕ = CENTERLINE



AREA TO BE PAVED

SITE DIMENSION DIAGRAM
JARD COMPANY, INC.
BENNINGTON, VERMONT

WESTON®
MANAGERS DESIGNERS/CONSULTANTS

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD #
98-06-0010

DRAWN BY:
T. BORCI

DATE
7/9/98

FILE NAME:
R:\98060010\flg3.dwg

FIGURE 3

ATTACHMENT IV

Sample Grid Map

ATTACHMENT V

Photodocumentation Log

PHOTOGRAPHY LOG SHEET
Jard Company Inc • Bennington, Vermont

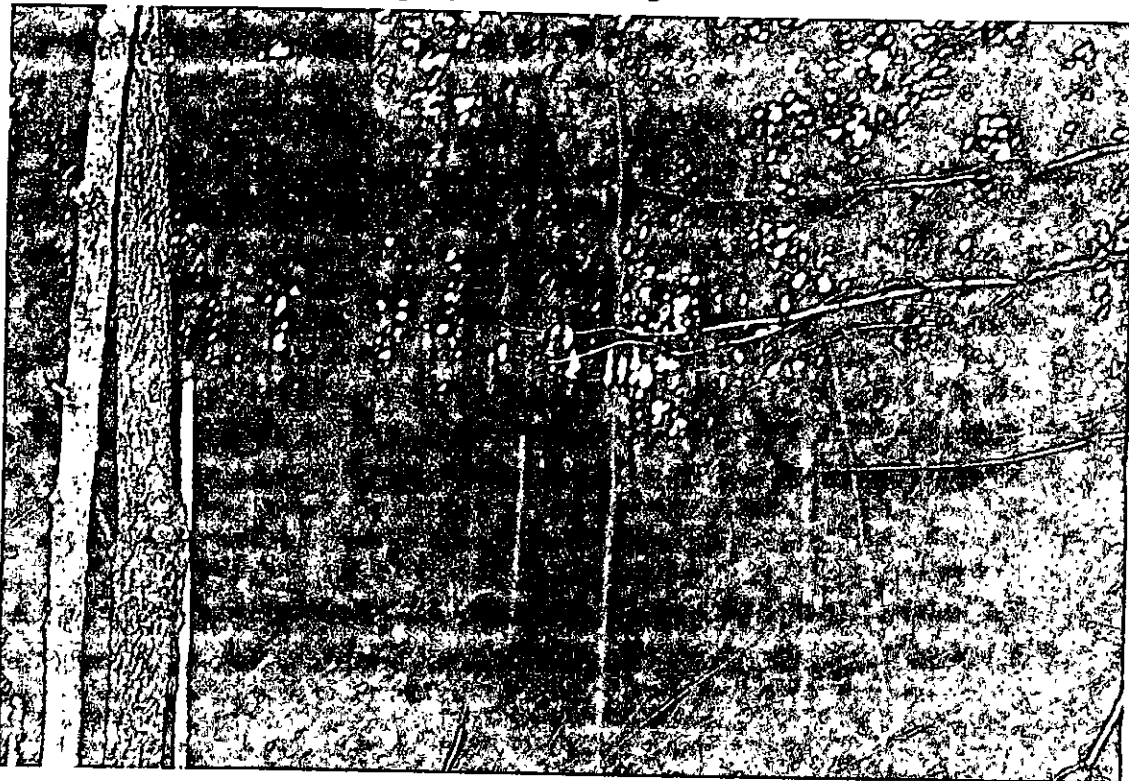


SCENE: View of back parking lot (facing north) note that the fence gate is open.
FRAME NUMBER: 01 **DATE:** 24 June 1998 **TIME:** 1100 **SKY CONDITION:** Cloudy
PHOTOGRAPH BY: Patricia Coppolino **WITNESS(ES):** Mandy Butterworth
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 07766



SCENE: View of the A-baseline point and the former drum storage area (facing east).
FRAME NUMBER: 02 **DATE:** 24 June 1998 **TIME:** 1105 **SKY CONDITION:** Cloudy
PHOTOGRAPH BY: Patricia Coppolino **WITNESS(ES):** Mandy Butterworth
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 07766

PHOTOGRAPHY LOG SHEET
Jard Company Inc • Bennington, Vermont



SCENE: View of base line C through H (facing south).

FRAME NUMBER: 03 **DATE:** 24 June 1998

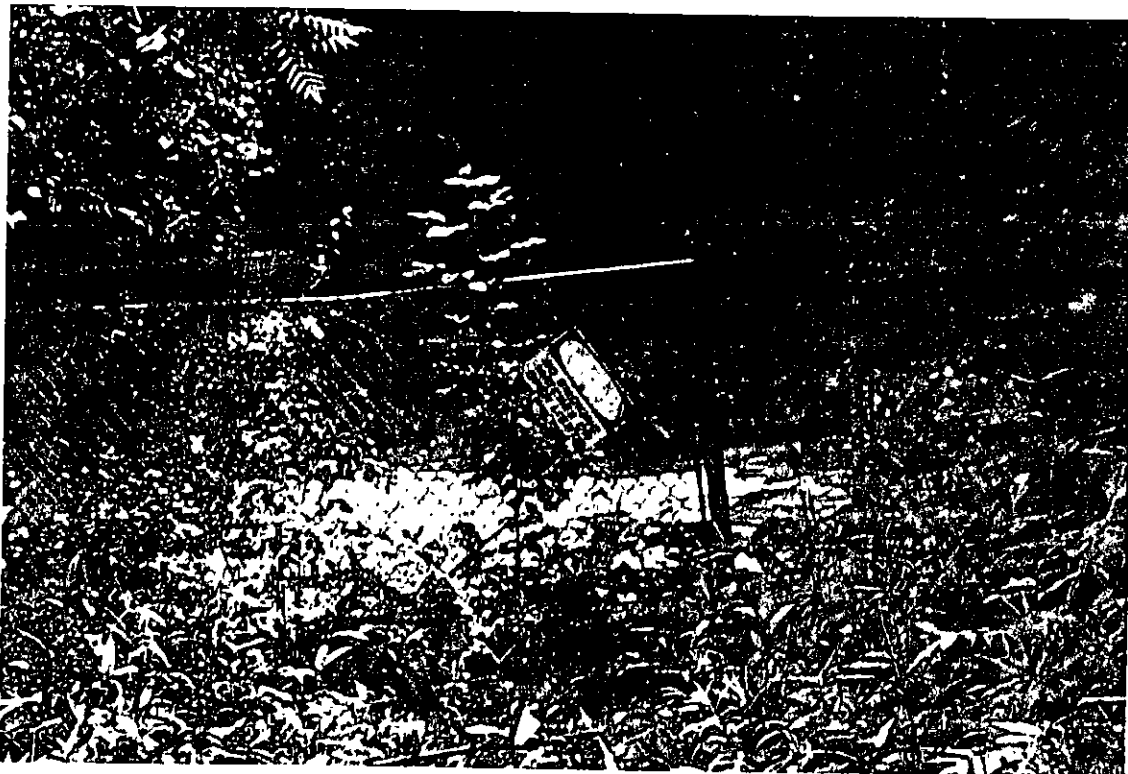
PHOTOGRAPH BY: Patricia Coppolino

CAMERA: Olympus **SETTING:** Automatic

TIME: 1110 **SKY CONDITION:** Cloudy

WITNESS(ES): Mandy Butterworth

FILM TYPE: 35-mm **FILM ROLL:** 07766



SCENE: View of sample location D-125 and a fenced in area that is believed to have been the location of a former gas tank storage area (facing west).

FRAME NUMBER: 04 **DATE:** 24 June 1998

PHOTOGRAPH BY: Patricia Coppolino

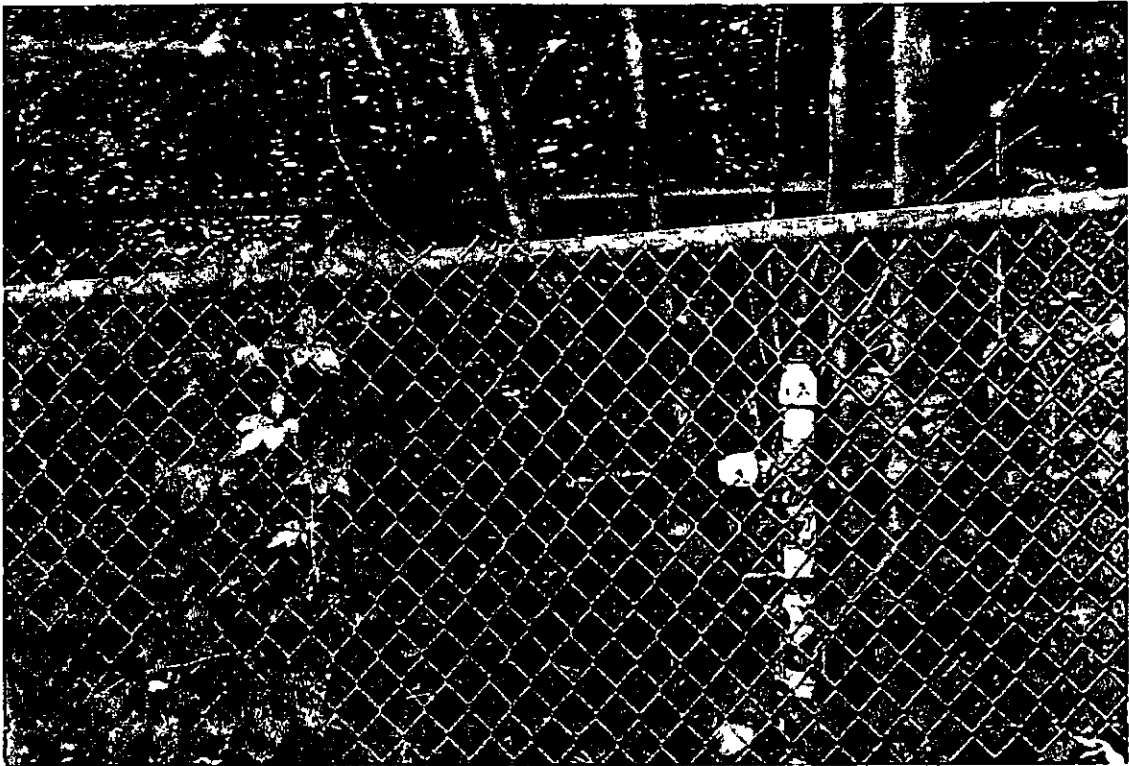
CAMERA: Olympus **SETTING:** Automatic

TIME: 1120 **SKY CONDITION:** Cloudy

WITNESS(ES): Mandy Butterworth

FILM TYPE: 35-mm **FILM ROLL:** 07766

PHOTOGRAPHY LOG SHEET
Jard Company Inc • Bennington, Vermont



SCENE: View of a gas gage located within a fenced in area located between grid line D and E
FRAME NUMBER: 05 **DATE:** 24 June 1998 **TIME:** 1125 **SKY CONDITION:** Cloudy
PHOTOGRAPH BY: Patricia Coppolino **WITNESS(ES):** Mandy Butterworth
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 07766



SCENE: View of roaring branch of the Walloomsac River (facing south), located 30 feet from H baseline.
FRAME NUMBER: 06 **DATE:** 24 June 1998 **TIME:** 1130 **SKY CONDITION:** Cloudy
PHOTOGRAPH BY: Patricia Coppolino **WITNESS(ES):** Mandy Butterworth
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 07766

PHOTOGRAPHY LOG SHEET
Jard Company Inc • Bennington, Vermont



SCENE: View of fence line where double letter sample locations are located (facing northwest)
FRAME NUMBER: 07 **DATE:** 24 June 1998 **TIME:** 1135 **SKY CONDITION:** Cloudy
PHOTOGRAPH BY: Patricia Coppolino **WITNESS(ES):** Mandy Butterworth
CAMERA: Olympus **SETTING:** Automatic **FILM TYPE:** 35-mm **FILM ROLL:** 07766

NEGATIVES



Roy F. Weston, Inc.
217 Middlesex Turnpike
Burlington, Massachusetts 01803-3308

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0009

NEGATIVES FOR ROLL 07766

ATTACHMENT VI

Screening Data Tables

ATTACHMENT VII

Chain-of-Custody

ROY F. Weston

CHAIN OF CUSTODY RECORD

[illegible]

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

START: Patricia Cepulino 781-229-6430

1-7536

ATTACHMENT VIII

Polychlorinated Biphenyls Analytical Data

PCB FIELD SCREENING RESULT SHEET

Jard Company Site, Bennington, Vermont

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	AROCLOR 1242 ug/g dry	PERCENT SOLIDS %	DATE EXTRACTED
D-125	6/24/98	6/24/98	12.3 U	81	6/25/98
D-150	6/24/98	6/24/98	11.2 U	89	6/25/98
D-175	6/24/98	6/24/98	11.9 U	84	6/25/98
D-200	6/24/98	6/24/98	8.8 J	85	6/25/98
D-225	6/24/98	6/24/98	11.4 U	88	6/25/98
DD-5	6/24/98	6/24/98	11.6 U	88	6/25/98
E-00	6/24/98	6/24/98	16.4 U	61	6/25/98
E-25	6/24/98	6/24/98	20.8 U	48	6/25/98
E-50	6/24/98	6/24/98	15.4 U	65	6/25/98
E-75	6/24/98	6/24/98	13.5 U	74	6/25/98
E-100	6/24/98	6/24/98	5.6 J	88	6/25/98
E-125	6/24/98	6/24/98	50.0 -	85	6/25/98
E-150	6/24/98	6/24/98	30.2 -	88	6/25/98
E-175	6/24/98	6/24/98	2.6 J	94	6/25/98
EE-5	6/24/98	6/24/98	6.4 J	90	6/25/98
F-00	6/24/98	6/24/98	18.5 U	54	6/25/98
F-25	6/24/98	6/24/98	12.7 U	79	6/25/98
F-50	6/24/98	6/24/98	13.5 U	74	6/25/98
F-75	6/24/98	6/24/98	17.2 U	58	6/25/98
F-100	6/24/98	6/24/98	48.6 -	54	6/25/98
F-125	6/24/98	6/24/98	9.3 J	86	6/25/98
G-00	6/24/98	6/24/98	12.7 U	79	6/25/98

ug/g = mg/kg =ppm

PCB FIELD SCREENING RESULT SHEET

Jard Company Site, Bennington, Vermont

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	AROCLOR 1242 ug/g dry	PERCENT SOLIDS %	DATE EXTRACTED
G-25	6/24/98	6/24/98	15.4 U	65	6/25/98
G-50	6/24/98	6/24/98	16.7 U	60	6/25/98
G-75	6/24/98	6/24/98	15.9 U	63	6/25/98
H-00	6/24/98	6/24/98	12.0 U	83	6/25/98
Z-5 dup of CC-5	6/24/98	6/24/98	11.6 U	86	6/25/98
Z-50 dup of G-50	6/24/98	6/24/98	16.7 U	60	6/25/98
Z-150 dup of D-150	6/24/98	6/24/98	11.1 U	90	6/25/98

ug/g = mg/kg =ppm

PCB FIELD SCREENING RESULT SHEET

Jard Company Site, Bennington, Vermont

SAMPLE ID	DATE SAMPLED	DATE ANALYZED	AROCOR 1242 ug/g dry	PERCENT SOLIDS %	DATE EXTRACTED
A-00	6/24/98	6/24/98	3.5 J	86	6/25/98
A-25	6/24/98	6/24/98	12.2 U	82	6/25/98
A-40	6/24/98	6/24/98	10.9 U	92	6/25/98
AA-00	6/24/98	6/24/98	6.5 J	85	6/25/98
B-00	6/24/98	6/24/98	11.1 U	90	6/25/98
B-25	6/24/98	6/24/98	12.0 U	83	6/25/98
B-50	6/24/98	6/24/98	3.3 J	82	6/25/98
B-75	6/24/98	6/24/98	10.9 U	92	6/25/98
BB-5	6/24/98	6/24/98	4.5 J	87	6/25/98
C-00	6/24/98	6/24/98	14.3 U	70	6/25/98
C-25	6/24/98	6/24/98	14.3 U	70	6/25/98
C-50	6/24/98	6/24/98	14.5 U	69	6/25/98
C-75	6/24/98	6/24/98	12.0 U	83	6/25/98
C-100	6/24/98	6/24/98	13.2 U	76	6/25/98
C-125	6/24/98	6/24/98	13.5 U	74	6/25/98
C-148	6/24/98	6/24/98	11.8 U	85	6/25/98
CC-5	6/24/98	6/24/98	11.4 U	88	6/25/98
D-00	6/24/98	6/24/98	13.5 U	74	6/25/98
D-25	6/24/98	6/24/98	15.6 U	64	6/25/98
D-50	6/24/98	6/24/98	11.2 U	89	6/25/98
D-75	6/24/98	6/24/98	12.7 U	79	6/25/98

ug/g = mg/kg =ppm